

# Candidate Information Bulletin



## STATE OF UTAH

### Environmental Health Scientist Environmental Health Scientist-In-Training

#### Examinations

- Registered Environmental Health Scientist/Registered Sanitarian Examination
- Utah Law and Rules Examination for Environmental Health Scientists

#### Examination Process

Candidates apply directly to Experior.

#### Licensure Process

For licensing information contact:

By US Mail  
**Division of Occupational and Professional  
Licensing**

P.O. Box 146741  
Salt Lake City, UT 84114-6741

By Delivery or Express Mail  
**Division of Occupational and Professional  
Licensing**

160 East 300 South, 1st floor  
Salt Lake City, UT 84111

Applications for licensure are available on the Internet at

<http://www.dopl.utah.gov>

You may also obtain them from:

**Experior**  
5486 South 1900 West, Suite C  
Taylorsville, UT 84118  
801.355.5009

#### Examination Fees

Registered Environmental Health Scientist/ Registered Sanitarian Examination	<b>\$140.00</b>
Utah Law and Rules Examination for Environmental Health Scientist	<b>\$55.00</b>
Both Exams	<b>\$195.00</b>

#### Examination Dates and Locations

The examinations are given by appointment at:

##### **Experior**

5486 South 1900 West, Suite C  
Taylorsville, UT 84118  
801.355.5009

#### Candidates with Special Needs

If you require a special testing accommodation under the *Americans with Disabilities Act* (ADA), please contact Experior to obtain and Accommodation Request Form. You will be required to submit written verification of your disability before scheduling your examination.

#### Out of State Candidates

If you are out of state, you may arrange with Experior to take the exam at any recognized testing center such as a university or community college. You must make the arrangements with the testing center and then send Experior the required information along with the fee that includes an additional \$50.00 out-of-state testing fee. Please include the following:

1. Candidate name, address and phone number
2. Name of Exam
3. Testing Center name, address, phone number and the name of the contact person
4. Test Fees: exam fee (including additional \$50.00 testing fee).

Candidates are responsible to pay the testing center any required fee.

Experior will mail the examination in a sealed envelope to the contact person at the testing center with instructions for administration. Experior will ship examinations to the testing centers within one week after requests have been received. Candidates are responsible to check with the testing center to make sure the examination has arrived by the testing date. Candidates will have a two-week period to take the test once the examination has been shipped to the testing center.

After the examination, the testing center will then mail the examination back to Experior for scoring and the scores will be mailed to candidates within

one week. Candidates are responsible for reporting their scores to the state.

**Note:** All out-of-state candidates will take paper/pencil examinations.

#### Score Information

Your score on each test is based on the number of questions you answer correctly. You will not be given credit for any question that has been answered incorrectly, left blank or has more than one answer marked. Be sure to mark an answer for each question.

## Registered Environmental Health Scientist/Registered Sanitarian Examination

#### REHS/RS Examination

For licensure as an Environmental Health Scientist in Utah, you must complete and pass the Registered Environmental Health Scientist/Registered Sanitarian (REHS/RS) Exam. Questions concerning NEHA's standards for national credentialing must be addressed to NEHA 303.756.9090.

#### What to Bring to the Exam

- Bring your Admission Letter and a photo identification (such as a driver's license).
- Bring two No. 2 pencils for marking your answer sheet.
- You may also bring a self-powered, nonprinting, nonprogrammable, nontext calculator into the examination.

#### Content Areas

The Registered Environmental Health Scientist/Registered Sanitarian Examination is based on the following content areas. Next to each subject heading is shown the approximate percentage of questions in that content area on the examination.

**1. General Environmental Health 12%**  
Knowledge of health inspection procedures, disease-causing agents, epidemiology, sampling techniques, field tests and methodology, land use planning, construction plans, permit/license process and public education.

**2. Statutes and Regulations 5%**  
Knowledge of legal authority, law concerning inspections, agency administrative actions (embargo, seizure, nuisance abatement, etc.), federal environmental health acts, laws, agencies and regulations.

**3. Food Protection 13%**  
Knowledge of inspection/investigation procedures of food establishments. Knowledge of food safety principles, protection, quality and storage. Knowledge of temporary food service events. Knowledge of proper food transport.

**4. Potable Water 8%**  
Knowledge of sanitary survey principles regarding potential or existing water systems and watersheds. Understand testing/sampling methods, water supply systems, water treatment processes and diseases associated with contaminated water.

**5. Wastewater 9%**  
Knowledge of inspection/investigation procedures of wastewater systems. Knowledge of soil characteristics and analysis methods, land use issues, wastewater treatment systems and processes and disease-causing organisms associated with wastewater.

**6. Solid and Hazardous Waste 9%**  
Knowledge of waste management systems, waste classifications, landfill methods, hazardous waste disposal methods and health risks associated with poor waste management.

**7. Hazardous Materials 4%**  
Knowledge of inspections/investigations of hazardous materials, self-protection procedures and types of hazardous materials.

**8. Vectors, Pests, and Weeds 7%**  
Knowledge of control methods for vectors, pests, and weeds; life cycle; different types of vectors, pests and weeds; diseases and organisms associated with vectors, pests and weeds, and public education methods.

**9. Radiation Protection 3%**  
Knowledge of inspections/investigations of radiation hazards, types of radiation, common sources of exposure, protection methods, health risks of radiation exposure and testing equipment/sampling methods used to detect radiation.

**10. Occupational Safety and Health 3%**  
Knowledge of inspection/investigation procedures of occupational settings, common health and safety hazards at worksites and general OSHA principles.

### 11. Air Quality and Noise 4%

Knowledge of inspection/investigation procedures to assess ambient air quality and environmental noise, air pollution sources, air/noise sampling methods and equipment, air/noise pollution control equipment and techniques, and health risks associated with poor air quality and excessive noise.

### 12. Housing 5%

Knowledge of inspection/investigation procedures of public/private housing and mobile home/recreational vehicle parks, health/safety risks of substandard housing, housing codes, heating, ventilation, and cooling systems, child safety hazards such as lead, and utility connections.

### 13. Institutions and Licensed Establishments 9%

Knowledge of the health hazards and sanitation problems commonly associated with correctional facilities, medical facilities, licensed establishments (tanning salons, massage clinics, tattoo parlors, and cosmetology salons) child-care facilities and schools, common disease-causing organisms and transmission modes, epidemiology, heating, ventilation and cooling systems.

### 14. Swimming Pools and Recreational Facilities 6%

Knowledge of inspection/investigation procedures for swimming pools/spas, recreational areas/facilities, amusement parks, temporary mass gatherings (concerts, county fairs, etc.). Knowledge of common organisms and resultant diseases associated with swimming pools/spas, water treatment systems, water chemistry, safety issues and sampling/test methods.

### 15. Disaster Sanitation 3%

Knowledge of disaster preparation, site management of disaster situations, and post disaster management. Knowledge of emergency response procedures, chain of command, supply needs, temporary shelter/facilities and services and remediation methods.

#### References

The following references are recommended to help you prepare for taking the examination. Be aware that these materials may NOT contain all of the general knowledge necessary within each content area.

1. *Environmental Health*, 1993, M.T. Morgan
2. *Environmental Engineering and Sanitation*, 1992, 4th Ed., J.A. Salvato
3. *Environmental Engineering and Sanitation, Supplement: New Tools for the Environmental Engineer/Scientist*, 1994, J. A. Salvato and J. E. Beck
4. *Control of Communicable Diseases in Man*, 1990, A. S. Beneson
5. *Epidemiology in Medicine*, 1987, C. H. Hennekens
6. *Emerging Infections-Microbial Threats to Health in the U.S.*, 1992, Institute of Medicine

7. *Public Health Law Manual*, 1990, F. P. Grad
8. *Environmental Law and Enforcement*, 1994, G.I. McGregor
9. *Principles of Food Sanitation*, 1994, N.G. Marriott
10. *Handbook for Safe Food Service Management*, 1994, National Assessment Institute
11. *Fundamentals of Industrial Hygiene*, 1988, 3rd Ed., National Safety Council
12. "Hantavirus Infection," *Morbidity and Mortality Reports*, July 30, 1993/Vol 42/No. RR-11, Centers for Disease Control
13. *Pool-Spa Operators Handbook*, 1990, L. Kowalsky
14. *National Health and Safety Performance Standards: Guidelines for Out-of-Home Child Care Programs*, 1992, National Center for Education in Maternal and Child Health
15. *Standards for Adult Correctional Institutions*, 1990, American Correctional Association
16. *Emergency Response Guidebook*, 1993, U.S. Department of Transportation

NEHA offers each book listed above. A package price for purchase at a discounted rate is also available. Please inquire with NEHA for purchase information. You may also purchase a study guide entitled *Environmental Health Specialist*. This study guide contains a content outline, supplemental reading list, and sample examination questions. For more information regarding the study guide, contact NEHA at 303.756.9090.

#### Sample Questions

The following list contains one sample question from each of the 15 content areas. Select the **MOST** appropriate response for each question.

1. The basic principles of disease control include all of the following **EXCEPT**
  - (A) lag phase.
  - (B) control of disease source.
  - (C) mode of transmission.
  - (D) susceptibility.
2. Performance of an authorized act in an unauthorized manner is called
  - (A) nonfeasance.
  - (B) malfeasance.
  - (C) misfeasance.
  - (D) disfeasance.

3. Which of the following groups of bacteria typically contains **MOST** of the pathogenic bacteria?
  - (A) Thermoduric
  - (B) Thermophilic
  - (C) Mesoduric
  - (D) Mesophilic
4. Which of the following types of wells is considered the **LEAST** likely to become contaminated?
  - (A) Drilled
  - (B) Bored
  - (C) Driven
  - (D) Dug
5. Which of the following are **LEAST** important when reducing sewage to soil, liquids, and gases?
  - (A) Anaerobic bacteria
  - (B) Earthworms
  - (C) Protozoa
  - (D) Aerobic bacteria
6. The **BEST** sanitary landfill method for a location with rolling terrain is the
  - (A) low-area method.
  - (B) valley or ravine method.
  - (C) trench method.
  - (D) area or ramp method.
7. The dose-response relationship of a toxic substance depends on all of the following **EXCEPT** the
  - (A) amount and concentration of the substance.
  - (B) pH of the substance.
  - (C) duration of exposure to the substance.
  - (D) toxicity of the substance.
8. Which of the following is **MOST** effective for controlling ragweed?
  - (A) Fenthion
  - (B) Dieldrin
  - (C) 2, 4-D
  - (D) Petroleum oil
9. Which term is used to show the exposure of large populations to low level radiation?
  - (A) Gamma-rem
  - (B) Person-rem
  - (C) Radiation-rem
  - (D) Quantum-rem

10. How many years **SHOULD** medical surveillance records be kept?
  - (A) 15
  - (B) 20
  - (C) 25
  - (D) 30
11. Scrubbers are wet collectors **GENERALLY** used to remove particles that form as a
  - (A) dust, aerosol, or fog.
  - (B) mist, solid, or vapor.
  - (C) fog, mist, or dust.
  - (D) fume, dust, or mist.
12. Vent gases combined with high moisture inside a chimney will form
  - (A) a glass-like glaze.
  - (B) hydrochloric acid.
  - (C) sodium chloride.
  - (D) sulfuric acid.
13. Nosocomial infections are a recurring problem in
  - (A) food establishments.
  - (B) hospitals.
  - (C) swimming pools.
  - (D) health spas.
14. The **PRINCIPAL** function of cyanuric acid in a swimming pool is to
  - (A) stabilize residual chlorine.
  - (B) prevent pH deterioration.
  - (C) improve the water clarity.
  - (D) remove scale deposits.
15. OSHA regulations other than HAZWOPER apply to emergency response and hazardous waste operations if they are
  - (A) less stringent.
  - (B) more stringent.
  - (C) less comprehensive.
  - (D) more comprehensive.

Answers to Sample Questions		
1 - A	6 - D	11 - C
2 - C	7 - B	12 - D
3 - D	8 - C	13 - B
4 - A	9 - B	14 - A
5 - A	10 - D	15 - B

# Utah Law and Rules Examination for Environmental Health Scientists

## Registering for the Exam

Examinations are administered five days a week (Mon.-Fri.) at Experior located at 5486 South 1900 West, Suite C, Taylorsville, UT 84118, and once per month in St. George, Utah. Register for the examination either:

1. **By mail.** Complete the enclosed Examination Application and return it by mail with your examination fee(s) to Experior. You will be scheduled for an appointment at the first available time approximately one week after your application is received. Experior will mail you an Admission Letter providing you with the exact date and time.
2. **By telephone.** You can schedule your appointment by calling Experior at 801.355.5009, between 8:30 a.m. and 4:30 p.m., Monday through Friday, and paying for your examination using a major credit card (MasterCard or Visa).

**Payment must be made in advance.** You may reschedule your examination for a \$10.00 rescheduling fee up to the time of your appointment. If you fail to appear for your appointment, your examination fee will be forfeited and you must reapply for the examination. No exceptions. **All examination fees are nonrefundable and nontransferable.**

## Computerized Testing

Examinations are administered using Experior's user friendly, windows-based, computerized testing system. Experior uses IBM compatible personal computers, similar to what you may have at home or in your business. You do not need any computer experience to use this system. In fact, you will only need to use five keys on the keyboard to take the test. (The other keys are disabled—there is no way you can harm the computer, the program, or the test by touching the wrong key.)

Prior to beginning your examination you can take a practice examination to become familiar with the computer testing system. A staff member will be available to help you if you need further assistance.

You will receive your score at the conclusion of the examination.

## Walk-In Testing

Candidates may "walk in" and test on a space-available basis for an additional \$10.00 fee. No reservation is required. The examination fee plus the walk-in fee must be paid before taking the examination.

## Description of the Exam

The Utah Law and Rules Examination for Environmental Health Scientists is a closed-book examination that consists of 50 multiple-choice questions. You will have two hours to complete the examination. A minimum of 75 percent of the examination questions must be answered correctly to pass the examination.

## Law Exam References

A Study Guide (consisting of two booklets) has been prepared to assist you in preparing for the Law examination. This Study Guide includes every question that could be included on the actual examination along with the answers, a content outline listing the sources from which the examination was developed, and relevant sources (i.e., state statutes, rules, etc.). The cost of the Study Guide is \$20.00 (plus shipping/handling and tax). You may order this Study Guide by calling Experior or by completing and submitting the enclosed Order Form.

## Copyrighted Exam Questions

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